



Monoclonal Anti-rat MMP-8 Antibody

ORDERING INFORMATION

Catalog Number: MAB3245

Clone: 400102

Lot Number: ZNY01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: rat MMP-8

Immunogen: NS0-derived rrMMP-8

Ig class: mouse IgG₁

Recommended Application:
Western blot

Other Application:
Direct ELISA

Background

Also known as neutrophil collagenase and collagenase 2, MMP-8 is expressed in and released from neutrophils. The aa sequence of rat MMP-8 is 91%, 75% and 73% identical to that of mouse, dog and human/chimpanzee.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant rat MMP-8 (rrMMP-8; Accession # O88766; aa 20 - 466; R&D Systems, Catalog # 3245-MP). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects rrMMP-8 in direct ELISAs and Western blots. In these applications, this antibody shows 100% cross-reactivity with rmMMP-8 and 50% cross-reactivity with rhMMP-8.

Applications

Western blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect rat MMP-8. Using a colorimetric detection system, the detection limit for rrMMP-8 is approximately 5 ng/lane under non-reducing and reducing conditions. Chemiluminescent detection with WesternGlo™ Chemiluminescent Detection Substrate (R&D Systems, Catalog # AR004) will increase sensitivity by 5 to 50 fold.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect rat MMP-8. The detection limit for rrMMP-8 is approximately 3 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

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